

DO NOT BREAK THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

QUESTION BOOKLET

SERIES : IV

**Subjects : General English, General Studies and
Commerce/Economics/Mathematics**

Full Marks : 350

Time Allowed : 3 Hours

Read the following instructions carefully before you begin to answer the questions.

INSTRUCTIONS TO CANDIDATES

1. This Booklet contains 175 Questions to be answered in a separate OMR Answer Sheet using Black Ballpoint Pen in the following three Parts :

Part—A : General English : 50 questions

Part—B : General Studies : 50 questions

Part—C : [Select any ONE subject from the following]
Commerce/Economics/Mathematics : 75 questions

2. All questions are compulsory.
3. You will be supplied the Answer Sheet separately by the Invigilator. You must complete the details of particulars asked for.
4. Answers must be shown by completely blackening the corresponding circles in the Answer Sheet against the relevant question number by Black Ballpoint Pen. OMR Answer Sheet without marking Series shall not be evaluated.

Example :

Suppose the following question is asked :

The Capital of Meghalaya is

- (A) Guwahati
(B) Kohima
(C) Shillong
(D) Delhi

You will have four alternatives in the Answer Sheet for your response corresponding to each question of the Question Booklet as below :

(A) (B) (C) (D)

In the above illustration, if your chosen response is alternative (C), i.e., Shillong, then the same should be marked on the Answer Sheet by blackening the relevant circle with a Black Ballpoint Pen only as below :

(A) (B) ● (D)

The example shown above is the only correct method of answering.

5. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any one question.
6. There will NOT be any negative marking for wrong answers.
7. The Answer Sheet must be handed over to the Invigilator before you leave the Examination Hall.
8. No Rough Work is to be done on the Answer Sheet. Space for Rough Work has been provided in the Question Booklet.

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DO NOT WRITE ANYTHING IN THIS PAGE

OPERATION BOOKLET

SERIES - IA

DO NOT BREAK THE SEAL OF THE BOOKLET UNLESS YOU ARE TOLD TO DO SO

BOOKLET SERIAL NO.

3311

PART—A : GENERAL ENGLISH

(Marks : 100)

Each question carries 2 marks

Directions (Q. Nos. 1-10) : Choose the word which best expresses the meaning of the given word.

1. APPROPRIATE

- (A) Scrupulous
- (B) Confiscate
- (C) Conscious
- (D) Intelligent

2. GORGEOUS

- (A) Magnificent
- (B) Hideous
- (C) Humble
- (D) Glorious

3. PREDICAMENT

- (A) Solution
- (B) Resentment
- (C) Plight
- (D) Outrage

4. NIMBLE

- (A) Active
- (B) Soft
- (C) Pliable
- (D) Clumsy

5. MODESTY

- (A) Boldness
- (B) Dauntless
- (C) Loudness
- (D) Humility

6. FILTER

- (A) Easy
- (B) Sieve
- (C) Grimy
- (D) Mucky

7. DEVIATE

- (A) Dictate
- (B) Divulge
- (C) Develop
- (D) Diverge

8. THROG

- (A) Flock
- (B) Thrust
- (C) Long
- (D) Scorn

9. RESENT

- (A) Love
- (B) Retrieve
- (C) Begrudge
- (D) Tease

10. PERIPHERAL

- (A) Permanent
- (B) Marginal
- (C) Central
- (D) Constant

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Directions (Q. Nos. 11-20) : Choose the word which expresses the opposite meaning of the given word.

11. PREVAILING

- (A) Subordinate
- (B) Uncommon
- (C) Widespread
- (D) Common

12. MOMENT

- (A) Instant
- (B) Juncture
- (C) Epoch
- (D) Time

13. LAUGHABLE

- (A) Humorous
- (B) Serious
- (C) Snigger
- (D) Mirth

14. DIMENSION

- (A) Proportion
- (B) Feature
- (C) Limited
- (D) Unlimited

15. CONTEMPT

- (A) Disdain
- (B) Disgust
- (C) Reverence
- (D) Praise

16. CORRESPOND

- (A) Disagreement
- (B) Agreement
- (C) Accord
- (D) Correlate

17. CHOKE

- (A) Retch
- (B) Smother
- (C) Ventilate
- (D) Obstruct

18. BRISK

- (A) Swift
- (B) Energetic
- (C) Sick
- (D) Lethargic

19. BLISS

- (A) Ecstasy
- (B) Rapture
- (C) Sorrow
- (D) Loneliness

20. SHREWD

- (A) Dull
- (B) Bold
- (C) Courageous
- (D) Intelligent

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Directions (Q. Nos. 21-30) : Choose the correct alternative which is closest in meaning to the given group of words.

21. An instrument used to see distant objects

- (A) Bioscope
- (B) Telescope
- (C) Microscope
- (D) Periscope

22. A written record of something

- (A) Transcript
- (B) Manuscript
- (C) Lyric
- (D) Epic

23. All future generations

- (A) Prosperity
- (B) Posterity
- (C) Ancestry
- (D) Progeny

24. One who hates women

- (A) Misologist
- (B) Misogynist
- (C) Misogamist
- (D) Moralist

25. A trade that is prohibited by law or prevailing social standards

- (A) Narcotic
- (B) Neurotic
- (C) Taboo
- (D) Illicit

26. Something that is misleading

- (A) Imaginative
- (B) Permissive
- (C) Alternative
- (D) Illusory

27. One who collects coins as a hobby

- (A) Anarchist
- (B) Hedonist
- (C) Numismatist
- (D) Philatelist

28. A group of artists

- (A) Actors
- (B) Troupe
- (C) Jury
- (D) Class

29. To use something without the right to do so

- (A) Usurp
- (B) Disturb
- (C) Coup
- (D) Protest

30. The study of worms and insects

- (A) Taxonomy
- (B) Zoology
- (C) Ethnology
- (D) Entomology

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Directions (Q. Nos. 31-35) : Read the passage carefully and fill in the blanks with suitable words.

People act under the urge of habit, authority, trial and error or through following some plan of 31. The most intelligent 32 to any personal problem is the determination of a plan which shows how one's desired objectives are to be attained. Once a person has perfected his plan, the next logical 33 is to put it into action. He may be compelled to 34 his plan again in the light of new facts, circumstances or experience, before he finds the most 35 means of attaining his objectives. But it is much easier to alter, add to, or subtract from any plan than it is to create the original outline.

31. (A) action
(B) procedure
(C) future
(D) understanding

32. (A) reason
(B) response
(C) attitude
(D) course

33. (A) solution
(B) reason
(C) step
(D) answer

34. (A) activate
(B) reason
(C) stop
(D) revise

35. (A) effective
(B) responsive
(C) crucial
(D) important

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Directions (Q. Nos. 36–40) : Some parts of the sentences have errors and some have none. Find out which part of a sentence has an error and mark the corresponding letter (A), (B), (C). If there is no error mark (D) as the answer.

36. We are / looking forward to /
(A) (B)
achieved great success this year /
(C)

37. There is a / violent storm /
(A) (B)
in the region last night / No error
(C) (D)

38. You should / apologized to Sam /
(A) (B)
for your mistakes / No error
(C) (D)

39. Remember to / turn off the lights /
(A) (B)
before you left home / No error
(C) (D)

40. You must try / not ^{to} run away /
(A) (B)
from your fears / No error
(C) (D)

Directions (Q. Nos. 41–50) : In the following questions four alternatives are given for the idiom/phrase. Choose the alternative which best expresses the meaning of the given idiom/phrase.

41. *Penny wise and pound foolish*
(A) To take a risk
(B) Careful in trivial matters but wasteful in large matters
(C) To invest a lot of money
(D) To speak foolishly

42. *To bury the hatchet*
(A) To end a quarrel to make peace
(B) To carry a sword
(C) To find hidden treasure
(D) To start a fight

43. *Hold your horses*
(A) To run very fast
(B) To train the horses
(C) To be patient
(D) To be impatient

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44. *In the long run*

- (A) Eventually after a long period of time
- (B) To go for the extra mile
- (C) To wait excitedly for something to happen
- (D) To bear the burden

45. *To know the ropes*

- (A) To understand the details
- (B) To understand the risks involved
- (C) To be physically fit
- (D) To be involved

46. *Level playing field*

- (A) A very big playing ground
- (B) An unfair competition where one side has an advantage
- (C) A small playing ground
- (D) A fair competition where no side has an advantage

47. *A tall order*

- (A) At a great height
- (B) To travel a long distance
- (C) A challenging task or requirement
- (D) An easy task or requirement

48. *Brownie points*

- (A) Praise for a service someone has done
- (B) The ability to face challenges
- (C) To score good points
- (D) To criticize someone

49. *To put one's cards on the table*

- (A) To put everything in one basket
- (B) Be open and honest
- (C) To hide something
- (D) Be blunt and disrespectful

50. *Zero hour*

- (A) An emergency situation
- (B) At the last moment
- (C) A time when a crucial decision must be taken
- (D) A time when one can relax

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PART—B : GENERAL STUDIES

(Marks : 100)

Each question carries 2 marks

51. Biodiversity is highest in which type of the following forests?
- (A) Alpine meadows
(B) Deciduous monsoon forests
(C) Coniferous forests
(D) Wet evergreen equatorial forests
52. Which of the following banks has tied up with the online portal 'magicbricks.com' to conduct joint marketing activities?
- (A) ICICI Bank
(B) Punjab National Bank
(C) HDFC Bank
(D) State Bank of India
53. Who is the winner of the Wimbledon Women's Single Title, 2017?
- (A) Venus Williams
(B) Garbine Muguruza
(C) Magdalena Rybarikova
(D) Serena Williams
54. Who is the author of the book, *Narendra Modi : The Making of a Legend?*
- (A) Anupam Kher
(B) Sanjay Mathur
(C) Bindeshwar Pathak
(D) Amartya Sen
55. The largest freshwater aquarium in India was inaugurated on 3rd July 2017 in
- (A) Goa
(B) Kerala
(C) Madhya Pradesh
(D) Jharkhand
56. Who is the current Chief Election Commissioner (CEC) of India as of 2024?
- (A) S. Y. Quraishi
(B) Dr. S. S. Sandhu
(C) V. S. Sampath
(D) H. S. Brahma
57. Vikrikar Bhavan recently renamed GST Bhavan is located in which State?
- (A) Karnataka
(B) Maharashtra
(C) Andhra Pradesh
(D) Uttar Pradesh
58. Which of the following has zero percent GST goods?
- (A) Banking Services
(B) Egg, fish, fresh milk, etc.
(C) Medicines, essential drugs like insulin
(D) Sanitary napkins

59. Which country hosted the FIFA World Cup 2017?

- (A) Qatar
- (B) Germany
- (C) Mexico
- (D) ~~Russia~~

60. Who won the FIFA Confederations Cup 2017?

- (A) ~~Germany~~
- (B) Russia
- (C) Chile
- (D) Portugal

61. Which of the following is correct regarding new currency note(s) introduced in India?

- (A) ~~₹ 500~~
- (B) ₹ 1000 ✗
- (C) ₹ 55 ✗
- (D) ₹ 2000 and ₹ 200 ✓

62. The national game of India is

- (A) Cricket
- (B) ~~Field Hockey~~
- (C) Kabaddi
- (D) None of the above

63. Which river bridge was inaugurated by Prime Minister Narendra Modi in 2017?

- (A) ~~Nehru Setu~~
- (B) Vikramshila Setu
- (C) Dhola-Sadiya bridge
- (D) Koilwar bridge

64. Which place did the State Bank of India (SBI) declare its 5th zone recently in North-East India?

- (A) Guwahati
- (B) ~~Shillong~~
- (C) Dibrugarh
- (D) Silchar

65. Grains : sand :: drops : _____

- (A) rain
- (B) surf
- (C) snow
- (D) ~~flood~~

66. Egg : fish :: _____ : plant

- (A) leaf
- (B) ~~seed~~
- (C) root
- (D) stem

F G H I J K
J I H G F

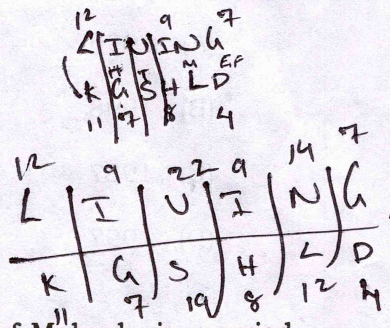
67. Complete the series : FAG, GAF, HAI, IAH, _____

- (A) ~~JAK~~
- (B) HAL
- (C) HAK
- (D) ~~JAI~~

1 A B C D E F G H I J K L M N O P Q R S T U V
 12 13 14 15 16 17 18 19 20 21 22

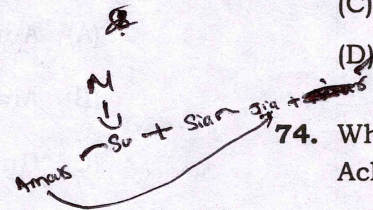
68. In a top secret message, if LIVING is coded as KGSHLD, then BUDDHA will be coded as

- (A) ATEEIB
- (B) ATACFX
- (C) ATCCGZ
- (D) KGSHLD



69. Suresh, the son of Mahesh, is married to Sia, whose sister Jia is married to Amar, the brother of Suresh. How is Jia related to Mahesh?

- (A) Daughter in law
- (B) Cousin
- (C) Sister in law
- (D) Sister

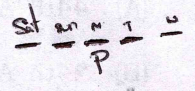


70. Choose the most meaningful sequence if Job = 1, Independence = 2, Study = 3, Income = 4, Exam = 5.

- (A) 1, 4, 2, 3, 5
- (B) 2, 5, 3, 1, 4
- (C) 3, 1, 2, 4, 5
- (D) 3, 5, 1, 4, 2

71. The day before yesterday was Saturday, what day will it be the day after tomorrow?

- (A) Tuesday
- (B) Wednesday
- (C) Thursday
- (D) Friday

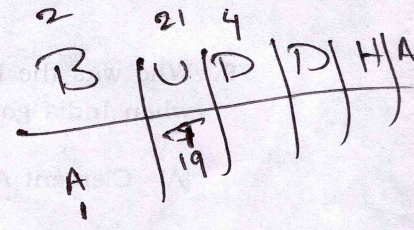


72. Who is current CEO of NITI Aayog?

- (A) B. V. R. Subrahmanyam
- (B) Ramkumar
- (C) Kannan Singh
- (D) Ram Menon

73. Permanent account number is a unique, alpha-numeric identifier of how many characters?

- (A) 10
- (B) 11
- (C) 15
- (D) 12



74. Who composed the song 'Sare Jahan Se Achha'?

- (A) Jaidev
- (B) Mohammad Iqbal
- (C) Bankim Chandra Chattopadhyay
- (D) Rabindranath Tagore

75. Which was the first English newspaper in India?

- (A) The Bengal Gazette
- (B) The Calcutta Gazette
- (C) The Bengal Journal
- (D) The Bombay Herald

76. Who is the founder of the Hindu reform movement 'Arya Samaj'?

- (A) Raja Ram Mohan Roy
- (B) Swami Vivekananda
- (C) Debendranath Tagore
- (D) Swami Dayananda

77. How many banks were nationalized in 1969?

- (A) 16
- (B) 14
- (C) 15
- (D) 20

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78. Who was the Prime Minister of Britain when India got its Independence?

- (A) Clement Attlee
- (B) Winston Churchill
- (C) Ramsay MacDonald
- (D) Neville Chamberlin

79. Who is known as the Napoleon of India?

- (A) Samudragupta
- (B) Chandragupta-I
- (C) Ramgupta
- (D) Vikramaditya

80. In the earth's atmosphere, the percentage of oxygen is

- (A) 30%
- (B) 17%
- (C) 21%
- (D) 42%

81. The Kyoto Protocol was adopted in which year?

- (A) 1996
- (B) 1998
- (C) 1987
- (D) 1997

82. Who is the author of the book, *The People's President : Dr. A. P. J. Abdul Kalam*?

- (A) Anita Desai
- (B) Aravind Adiga
- (C) Gulzar
- (D) S. M. Khan

83. U Soso Tham, the Khasi poet died on

- (A) 18th December, 1940
- (B) 18th December, 1941
- (C) 20th December, 1940
- (D) 20th December, 1941

84. Which of the following amendments accorded precedence to the Directive Principles of Fundamental Rights?

- (A) 44th Amendment
- (B) 24th Amendment
- (C) 39th Amendment
- (D) 42nd Amendment

85. The Lokpal Bill was introduced under

- (A) Article 248
- (B) Article 252
- (C) Article 253
- (D) Article 246

86. Right to Equality is mentioned in which of the following Articles of the Indian Constitution?

- (A) Article 14
- (B) Article 14(1)
- (C) Article 13 (3) (1)
- (D) Article 15

87. The Indian Independence Act, 1947 came into effect on

- (A) 14th August, 1947
- (B) 18th July, 1947
- (C) 26th January, 1947
- (D) None of the above

88. Which State hosted the 2022 National Games?

- (A) Assam
- (B) Haryana
- (C) Gujarat
- (D) Meghalaya

89. Name the Star Wars Actress, who passed away on 27th December, 2016.

- (A) Jane Fonda
- (B) Vivien Leigh
- (C) Shelagh Fraser
- (D) Carrie Fisher

90. ISRO launched the world's first satellite dedicated to education, the EDUSAT in

- (A) June, 2004
- (B) July, 2004
- (C) August, 2004
- (D) September, 2004

91. The Academy Awards for best motion picture in 2017 was

- (A) *Moonlight*
- (B) *La La Land*
- (C) *Zootopia*
- (D) *Manchester by the Sea*

92. Which of the following States celebrates the Hornbill Festival?

- (A) Assam
- (B) Manipur
- (C) Nagaland
- (D) Mizoram

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93. Which of the following countries is **not** a member of BRICS?

- (A) Bangladesh
- (B) Brazil
- (C) China
- (D) South Africa

94. In which year was 'All India Radio' set up?

- (A) 1936
- (B) 1927
- (C) 1947
- (D) 1950

95. *Alice in Wonderland* is adapted from a book written by

- (A) Thomas Hardy
- (B) Lewis Carroll
- (C) Charles Dickens
- (D) Enid Blyton

96. The famous character 'Pickwick' was created by

- (A) Leo Tolstoy
- (B) Walt Disney
- (C) Charles Dickens
- (D) Steven Spielberg

97. The creator of 'Sherlock Holmes' was

- (A) Arthur Conan Doyle
- (B) Ian Fleming
- (C) Dr. Watson
- (D) None of them

98. 'Human Rights Day' is observed on

- (A) 10th November
- (B) 10th December
- (C) 11th February
- (D) 16th September

99. Which among the following is the most abundant greenhouse gas in the earth's atmosphere?

- (A) Carbon Dioxide
- (B) Sulphur Dioxide
- (C) Water Vapour
- (D) Tropospheric Ozone

100. The 'thickness' of the Stratospheric Ozone layer is measured in/on

- (A) Sieverts
- (B) Dobson units
- (C) Melson units
- (D) Beaufort scale

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PART—C

(Marks : 150)

[Select any ONE subject from the following]

COMMERCE

Each question carries 2 marks

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101. Goods are sent from head office to a branch at a price so as to include a 25% profit on transfer price. What will be the amount of reserve on a closing stock of ₹ 15,000 at the branch?

- (A) ₹ 4,000
(B) ₹ 3,500
(C) ₹ 3,750
(D) ₹ 3,250

Handwritten calculation:
$$\frac{3750}{15000} \times 100 = 25\%$$

A T-account diagram with 'Sh cap' on the debit side and 'TO S For' and 'TO C' on the credit side.

104. In Mergers and Acquisitions, if the credits exceed the debits, the difference should be debited to Goodwill Account but if the debits exceed the credits, the difference should be credited to _____ Account.

- (A) Business Purchase
(B) Purchase Consideration
(C) Revised Value
(D) Capital Reserve

102. Which one of the following should be deducted from share capital to find out paid-up share capital?

- (A) Share forfeiture
(B) Discount on issue of shares
(C) Calls in arrears
(D) Calls in advance

105. For a company to carry out capital reduction, permission is required from the

- (A) Central Government
(B) Company Law Board
(C) Controller of Capital Issues
(D) National Company Law Tribunal

103. Amount set aside to meet losses due to bad debts is

- (A) contingency
(B) reserve
(C) provision
(D) liability

106. Goodwill is the most _____ form of assets as it can be disposed of only in the event of business being sold as going concern.

- (A) valuation
(B) unrealisable
(C) annuity
(D) ROI

107. Which of the following techniques is **not** used in the analysis of financial statements?

- (A) Trend Percentages Analysis
- (B) Price Level Changes
- (C) Funds Flow Statement
- (D) Common Measurement Statements

108. At the time of conversion of debentures redeemable at par into equity shares to be issued at discount, the amount to be credited in the equity share capital account shall be

- (A) nominal value of debentures only
- (B) nominal value of debentures plus discount on issue of shares
- (C) nominal value of debentures minus discount on issue of shares
- (D) conversion value of debentures only

109. Value of work certified ₹ 50,000; Cost of work uncertified ₹ 2,10,000; Total profit as per contract account ₹ 30,000; Cash received 80% of work certified. Calculate the value of work-in-progress.

- (A) ₹ 55,000
- (B) ₹ 65,000
- (C) ₹ 56,000
- (D) ₹ 66,000

$$\begin{array}{r}
 210,000 \\
 50,000 \times \frac{80}{100} \\
 \hline
 160,000 \\
 230,000 \times \frac{80}{100} \\
 \hline
 184,000 \\
 \hline
 46,000
 \end{array}$$

110. A process loss which **does not** affect the cost per unit is

- (A) normal loss
- (B) abnormal loss
- (C) seasonal loss
- (D) standard loss

111. First Year : Sales ₹ 80,000; Profit ₹ 10,000; Second Year : Sales ₹ 90,000; Profit ₹ 14,000. Calculate P/V ratio.

- (A) 40%
- (B) 30%
- (C) 50%
- (D) 80%

$$\frac{10,000}{80,000} \times 100 = 12.5\%$$

112. Under Marginal Costing, the values of stocks of work-in-progress and finished products are calculated on

- (A) break-even value
- (B) fixed and variable costs
- (C) cost of inventory
- (D) variable costs

$$\begin{array}{l}
 230,000 \times \frac{80}{100} = 184,000 \\
 290,000 \times \frac{80}{100} = 232,000 \\
 232,000 - 184,000 = 48,000
 \end{array}$$

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113. Standard hours equivalent to the work produced expressed as a percentage of the actual hours spent in producing that work is ____ ratio.

- (A) capacity utilisation
- (B) activity
- (C) efficiency
- (D) calendar

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114. Zero-based budgeting will be appropriate in areas where output is not related to

- (A) expenses
- (B) production
- (C) standards
- (D) estimates

115. Material Usage Variance = Material Mix Variance + Material ____ Variance.

- (A) Rate-of-Pay
- (B) Ideal-Time
- (C) Standard Rate
- (D) Yield

116. Closing balance of costing profit and loss a/c shows

- (A) Profit or Loss
- (B) Cost Ledger Control Account
- (C) Under-absorbed Balance
- (D) Job Cost

117. Distance : 50 kms. A vehicle makes 3 trips round daily carrying 40 passengers and working everyday. Calculate total passenger kilometre per day.

- (A) 10000
- (B) 12000
- (C) 8000
- (D) 6000

$$50 \times 3 = 150$$
$$\frac{150}{40} = 3.75$$
$$3.75 \times 40 = 150$$

118. Attractive packing is ____ expense.

- (A) selling
- (B) semi-variable
- (C) overhead
- (D) service

119. The probability of selecting a black card or a 6 from a pack of 52 cards is

- (A) 26/52
- (B) 28/52
- (C) 4/52
- (D) 2/52

$$\frac{6}{52} + \frac{26}{52} = \frac{32}{52}$$

120. Which of the following is a non-parametric test?

- (A) t-test
- (B) Chi-square
- (C) Correlation
- (D) Regression

121. When total population is divided into groups to complete sampling process, it is _____ sampling.

- (A) classified
- (B) convenience
- (C) systematic
- (D) stratified

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122. _____ is the initiative which directly links the rural farmers with the company for the procurement of agriculture and allied products.

- (A) e-choupal
- (B) e-kiosk
- (C) e-model
- (D) e-kisan

123. 'Buy one and get one free' represents _____ pricing.

- (A) promotional
- (B) skimming
- (C) penetrating
- (D) competitive

124. Price at which government purchases farm produce from farmers is _____ price.

- (A) tariff
- (B) minimum support
- (C) procurement
- (D) farm

125. To mitigate the farm produce marketing risk, the agriculture professionals use _____ as risk-reduction measure.

- (A) hedging
- (B) spatial
- (C) off-set
- (D) constant price

126. Which of the following do not fall under unorganised money market?

- (A) Commercial paper
- (B) Finance companies
- (C) Indigenous bankers
- (D) Moneylenders

127. _____ is any party that evaluates and assumes another party's risk for a fee.

- (A) Underwriter
- (B) Commission Agent
- (C) Del Credere Agent
- (D) Jobber

128. Net Asset Value is the value of Fund's Asset less the value of its _____ per unit.

- (A) liabilities
- (B) expenses
- (C) investments
- (D) risks

129. Mutual Funds using aggressive investment, viz., financial leverage to obtain maximum capital appreciation for investors are _____ funds.

- (A) real estate
- (B) leveraged
- (C) dual-purpose
- (D) performance

130. _____ is an arrangement where exporter surrenders export receivables to receive full value of export before realisation.

- (A) Factoring
- (B) Forfeiting
- (C) Export Credit
- (D) Recourse

131. The _____ market refers to the market for government and semi-government securities, backed by the Reserve Bank of India.

- (A) New Venture
- (B) Industrial Security
- (C) Institutional
- (D) Gilt-edged

132. Brought forward unabsorbed speculation business loss can be set off only against income from any other _____ business.

- (A) speculative
- (B) general
- (C) specific
- (D) casual

133. Mr. X received a car from his cousin on payment of ₹ 1 lakh, the Fair Market Value of which was ₹ 4 lakhs. Explain the taxability of gift.

- (A) No tax payable
- (B) Tax payable on ₹ 1 lakh
- (C) Tax payable on ₹ 4 lakhs
- (D) Tax payable on ₹ 3 lakhs

134. Income of minor earned through talent is taxable in _____ hands.

- (A) Father's
- (B) Mother's
- (C) Minor's
- (D) Employer's

135. Donation to National Foundation for Communal Harmony is eligible for tax deduction under Section 80C, that is _____

- (A) 10% deduction
- (B) 50% deduction
- (C) 60% deduction
- (D) 100% deduction

136. Remuneration received by MLA/MP is taxable under the head _____

- (A) Income from other sources
- (B) Constituency Allowance
- (C) Daily Allowance
- (D) Professional Allowance

137. Rent for agricultural land received from tenant or sub-tenant is _____ income.

- (A) non-agricultural
- (B) agricultural
- (C) business
- (D) spontaneous

138. Fair Rental Value ₹ 1,85,000; Municipal Rental Value ₹ 1,90,000; Standard Rent ₹ 1,80,000; Actual Rent ₹ 2,16,000 p.m. includes unrealised rent ₹ 30,000. The Annual Value is _____

- (A) ₹ 2,16,000
- (B) ₹ 1,86,000
- (C) ₹ 1,80,000
- (D) ₹ 1,85,000

139. With effect from 01-04-2018, Land and Building or both held for more than 24 months should be treated as _____ capital asset.

- (A) long-term
- (B) medium-term
- (C) short-term
- (D) undertaking

140. _____ is the set of characters unique to the brand that allows the business to charge a higher price and retain a greater market share.

- (A) Labelling
- (B) Flanker
- (C) Brand Equity
- (D) Recession

216
30
180

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141. The _____ effect is a term for a consumer's favouritism toward a line of products due to positive experiences with other products by the maker.

(A) premium

(B) service

(C) clutter

(D) halo

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142. Colgate introduced frozen food to boost toothpaste business. It proved to be a failure, that is

(A) loss leadership

(B) captured value

(C) value proposition

(D) frugal idea

143. Swiggy, an online food ordering and delivering service aims to connect the restaurants to foodies. Its vision is to

(A) change the way India eats

(B) elevate quality of urban customer

(C) target younger generation

(D) behaviour segmentation

144. 'Start-up India' is for

(A) incredible growth

(B) diffusion of innovation

(C) employment growth

(D) invest into India

145. Backward communication represents

(A) orders

(B) rules

(C) reports

(D) procedures

146. Liability of auditor under common law is civil liability for negligence towards clients and

(A) third parties

(B) 2-tier parties

(C) verticals

(D) committees

147. Transfer of possession but not title to goods. Title stays with the consignor while the consignee has possession is

(A) collateralize

(B) compliance

(C) assignment

(D) consignment

148. One who has possession or is in charge of something. Some entities entrust investment securities to a bank, which is _____ of the company's securities.

- (A) underwriter
- (B) custodian
- (C) promoter
- (D) evaluator

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149. Policy adopted by challenger firm to launch an intermittent attack with an intention to harass competitor is _____ warfare.

- (A) guerrilla
- (B) offensive
- (C) defensive
- (D) flanking

150. Mobile payment _____ allows the business to accept payments from customers on the go, and they can track business expenses.

- (A) software
- (B) track
- (C) app
- (D) favourites

151. Capital budgeting is a part of

- (A) investment decision
- (B) financing decision
- (C) dividend decision
- (D) working capital management

152. In the case of an unlevered firm, WACC would be equal to

- (A) cost of debt
- (B) cost of equity
- (C) Neither (A) nor (B)
- (D) Both (A) and (B)

153. 'Bird in hand' argument is given by

- (A) Walter's model
- (B) Gordon's model
- (C) M. M. model
- (D) Residual theory

154. Which of the following techniques of capital budgeting **does not** consider the time value of money?

- (A) NPV method
- (B) IRR method
- (C) Profitability Index method
- (D) Payback Period method

155. If current ratio is 1.5 : 1 and net current asset is ₹ 5,00,000, what is the current asset?

- (A) ₹ 5,00,000
- (B) ₹ 15,00,000
- (C) ₹ 10,00,000
- (D) ₹ 25,00,000

$$CR = \frac{CA}{CL}$$

$$\frac{1.5}{1} = \frac{500000}{CL}$$

$$CL = \frac{500000 \times 1}{1.5}$$

3

$$\frac{CA}{CL} = \frac{1.5}{1}$$

$$3 \overline{) 10,00,000}$$

156. Robotic Managers are taking over _____ level management.

- (A) low
- (B) middle
- (C) top
- (D) multi

157. Using a large group of people to generate ideas, services or content via target segments is

- (A) crowd sourcing
- (B) employee advocacy
- (C) stakeholders
- (D) clusters

158. Which of the following is a social network platform?

- (A) Franchise
- (B) LinkedIn
- (C) App-builder
- (D) Amazon Marketplace

159. _____ strategy creates new uncontested market spaces, new demand and leads to profitable growth.

- (A) Blue Ocean
- (B) Global Leadership
- (C) Who Moved My Cheese
- (D) Total Access

160. _____ of Customer refers to

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- (A) web-tracking
- (B) zone-pricing
- (C) client inputs
- (D) vertical supply chain

161. Cost curve exhibits

- (A) overall profitability
- (B) optimum revenue
- (C) marginal shift
- (D) calculated cost

162. The degree of buyer's responsiveness to price changes is _____ of demand.

- (A) revenue level
- (B) standard
- (C) measure
- (D) elasticity

$$73205 = 50,000 \left(1 + \frac{R}{100}\right)^4$$

$$= 50,000 \left(\frac{100+R}{100}\right) \times \frac{100+R}{100} \times \frac{100+R}{100} \times \frac{100+R}{100}$$

163. Which of the following is **not** a payment app?

- (A) PhonePay
- (B) Paytm
- (C) GPay
- (D) MobiQuik

164. _____ search engine is owned and managed by Microsoft.

- (A) Baidu
- (B) Bing
- (C) ByteDance
- (D) Torrentz

165. Price difference between two markets is exploited by

- (A) Arbitrageurs
- (B) Spotters
- (C) Speculators
- (D) Jobbers

$$500 \left[\frac{23205}{2000} \right]^4$$

166. The Immediate Payment Service (IMPS), an instant interbank electronic fund transfer service available through mobile phones and internet, is launched by the

- (A) National Payments Corporation of India
- (B) Securities Exchange Board of India
- (C) Reserve Bank of India
- (D) Electronic Fund Services Board

167. Unified Payment Interface (UPI) is a/an _____ application which allows users to transfer money between bank accounts.

- (A) Venmo
- (B) Apple Pay
- (C) Google
- (D) Smartphone

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168. Opening inventory ₹20,000; Closing inventory ₹6,000. Purchases ₹46,000, Wages ₹3,000, Carriage inward ₹2,000, Freight outward ₹5,000. Calculate the inventory ratio.

- (A) Five times
- (B) Six times
- (C) Seven times
- (D) Eight times

$$\frac{46000 + 3000 + 2000}{20000 + 6000 + 5000} = \frac{51000}{28000} = \frac{13}{7}$$

169. Average credit sales is ₹10 lakhs per day, Average collection period is 60 days and cost of sales is 80%. Calculate the Investment in Accounts receivable (in terms of cost).

- (A) ₹80 lakhs
- (B) ₹600 lakhs
- (C) ₹480 lakhs
- (D) ₹1.12 lakhs

$$10 \times 60 = 600$$

$$23205 = 50000 \times \frac{R}{100} \times 4$$

$$SI = A \times R \times T$$

$$23205 = 50,000 \times \frac{R}{100} \times 4$$

$$I = 23205$$

$$R = ?$$

$$T = 4$$

$$\frac{23205 \times 100}{50,000 \times 4} = R$$

/33-IV [FAO/TO (Fin : Jan, 2024)]

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$$2000 \sqrt{\frac{23205}{2000}} = 2000 \sqrt{11.6025} = 2000 \times 3.406 = 6812$$

$$23205 \times \frac{100}{80000} = 29006.25$$

$NR = OR + G.R$
 $A = \frac{4}{9} + \frac{4}{6} = \frac{8+12}{18} = \frac{20}{18}$

$B = \frac{2}{9} + \frac{2}{6}$
 $OR = \frac{4+6}{18} = \frac{10}{18}$
 $4:3:2$
 $20:10$
 $2:1$

170. Firm's policy is to use more debt in capital structure. If its ROI > Cost of debt, the effect on EPS is
- (A) decrease
 - (B) increase
 - (C) negative
 - (D) no impact

$A = \frac{1}{2} \times \frac{4}{9} = \frac{4}{18}$
 $C = \frac{2}{9} \times \frac{2}{3} = \frac{4}{27}$

173. A, B and C are partners in a firm sharing profits and losses in the ratio of 4:3:2. B decides to retire from the firm. Calculate the new profit-sharing ratio of A and C in the following circumstances:

If B gives his share to A and C in the original ratios of A and C

$\frac{4}{9} + \frac{2}{9} = \frac{6}{9} = \frac{2}{3}$
 $\frac{2}{9} + \frac{2}{6} = \frac{4+6}{18} = \frac{10}{18}$
 $A = \frac{1}{2} \times \frac{4}{9} = \frac{2}{9}$
 $C = \frac{2}{3} \times \frac{2}{9} = \frac{4}{27}$
 $20:18$
 $10:9$
 $A = \frac{4}{9} + \frac{2}{9} = \frac{6}{9} = \frac{2}{3}$
 $C = \frac{2}{9} + \frac{2}{9} = \frac{4}{9}$
 $2:1$

171. An equity share of the company is currently selling for ₹ 50. The company expects to pay ₹ 6 per share at the end of current year. Dividend per share is expected to grow at the rate of 8% p.a. Calculate the cost of equity (K_e).

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- (A) 20%
- (B) 15%
- (C) 18%
- (D) 12%

$6 \times \frac{100}{100} = 6$
 $6 \times \frac{100}{100} = 6$
 $6 \times \frac{100}{100} = 6$
 $12 \times \frac{100}{100} = 12$
 73205
 $50,000$
 $23,205$

174. In Not-for-Profit Organization there is a prize fund. Prizes are awarded; expenses and income are transferred to

- (A) income and expenditure account
- (B) assets side of balance sheet
- (C) liabilities side of balance sheet
- (D) both income and expenditure account and to balance sheet

172. Z Ltd. is evaluating the rate of return on the project, which involves immediate cash outflow of ₹ 50,000. The cash inflow after 4 years in the project as ₹ 73,205. Calculate the rate of return of Z Ltd.

- (A) 8%
- (B) 15%
- (C) 18%
- (D) 10%

$50,000 \times 15\% = 75,000$
 $73,205$
 2000
 3205
 2000
 152
 75
 4641
 400
 64
 641
 $50,000 \times 15\% = 75,000$
 $75,000$
 $50,000$
 5801
 500
 501
 501

175. The amount paid at the time of hire-purchase agreement is referred as

- (A) cash price
- (B) down payment
- (C) first instalment
- (D) hire-purchase price

23205
 125
 70
 0
 705
 4641
 5
 25
 $5 \sqrt{23205} \quad 4641$
 20
 32
 30
 20
 20
 5
 $4 \sqrt{23205} \quad 5801$
 20
 32
 32
 0
 5
 4
 10

$50,000 \times$

$500 \sqrt{5801} \quad 18$
 500
 501
 501

5801×100
 580100
 32
 32
 0
 5
 4
 10

ECONOMICS

Each question carries 2 marks

101. Producer's equilibrium will be achieved at a point where
- (A) MRTS is greater than the price ratio
 - (B) MRTS is lesser than the price ratio
 - (C) MRTS and price ratio are equal to each other
 - (D) the slopes of iso-quant and iso-cost lines are different
102. With regard to a monopoly firm, find out the **incorrect** statement.
- (A) AR and MR curves are both negatively sloped
 - (B) MR curve lies half-way between the AR curve and the Y-axis
 - (C) AR cannot be zero, but MR can be zero or even negative
 - (D) Total revenue will be minimum when MR is zero
103. What is true of a monopolist in the short period?
- (A) He always earns monopoly profits
 - (B) He always earns normal profits
 - (C) He may suffer losses
 - (D) He never suffers losses
104. The marginal productivity theory **does not** assume
- (A) homogeneous units of a factor of production
 - (B) existence of perfect competition in factor market
 - (C) indivisibility of factors of production
 - (D) variable factor proportions
105. "Interest is the reward for pure waiting." Which theory of interest explains it?
- (A) Time preference theory
 - (B) Classical theory
 - (C) Liquidity preference theory
 - (D) Loanable fund theory
106. Who among the following explains profit as a reward for uncertainty bearing?
- (A) J. B. Clark
 - (B) J. A. Schumpeter
 - (C) F. H. Knight
 - (D) Alfred Marshall
107. The relationship between MEC and prospective annual yield is
- (A) direct
 - (B) inverse
 - (C) equal
 - (D) indifferent
108. Which of the following is **not** a function of the IMF?
- (A) Promotion of international monetary corporation
 - (B) Provision of finance for economic development
 - (C) Exchange rate stability
 - (D) Multi-lateral system of payments

109. The value of foreign trade multiplier will be high under the condition when

- (A) marginal propensity to save is high
- (B) marginal propensity to input is high
- (C) there is increase in exports
- (D) marginal propensity to consume domestic goods is high

110. What is the basis of poverty in rural India?

- (A) On income of ₹ 27 per day
- (B) On income of ₹ 32 per day
- (C) On income of ₹ 37 per day
- (D) On income of ₹ 55 per day

111. Which of the following is **not** a classification of e-commerce?

- (A) B2C (business to consumer)
- (B) D2D (distributor to distributor)
- (C) C2C (consumer to consumer)
- (D) B2B (business to business)

112. According to Malthus, the population of a country grows

- (A) arithmetically
- (B) algebraically
- (C) geometrically
- (D) at constant rate

113. Which of the following is true with regard to food security?

- (A) Food security exists when government maintains buffer stock of grains for next five years
- (B) Government imposes ban on grains exports for maintaining sufficient stock
- (C) Government encourages to produce organic foods for better and secure health
- (D) Food security exists when all people, at all time have access to sufficient, safe and nutritious food

114. Price theory is also known as

- (A) macroeconomics
- (B) public economics
- (C) development economics
- (D) microeconomics

115. The gradation and standardization of agricultural products are conducted through

- (A) Food Corporation of India
- (B) Directorate of Marketing and Inspection
- (C) Indian Standards Institution
- (D) Central Statistical Organization

116. When the total product rises at an increasing rate, the
- (A) marginal product is zero
 - (B) marginal product is falling
 - (C) marginal product is rising
 - (D) marginal product remains constant
117. Economies of scale means a reduction in
- (A) the unit cost of production
 - (B) the total cost of distribution
 - (C) the unit cost of distribution
 - (D) the total cost of production
118. Which is the most essential function of an entrepreneur?
- (A) Supervision
 - (B) Marketing
 - (C) Management
 - (D) Risk bearing
119. Engel's law states the relationship between
- (A) quantity demanded and price of a commodity
 - (B) quantity demanded and price of substitutes
 - (C) quantity demanded and income of the consumers
 - (D) quantity demanded and tastes of the consumers
120. Prime cost is equal to
- (A) variable cost plus administrative cost
 - (B) variable cost only
 - (C) variable cost plus fixed cost
 - (D) fixed cost only
121. Capital formation in an economy depends on
- (A) total income
 - (B) total savings
 - (C) total demand
 - (D) total production
122. In economics, production means
- (A) manufacturing
 - (B) creating utility
 - (C) making
 - (D) farming
123. When a large number of investors in a country transfer investments elsewhere because of disturbed economic conditions, it is called
- (A) transfer of capital
 - (B) outflow of capital
 - (C) escape of capital
 - (D) flight of capital

124. In the law of demand, the statement "other things remain constant" means

- (A) income of consumer should not change
- (B) taste of consumer should not change
- (C) price of other goods should not change
- (D) All of the above

125. Which organization collects data for the unorganized sector?

- (A) NSSO
- (B) ASI
- (C) CSO
- (D) RBI

126. Which of the following is **not** viewed as national debt?

- (A) Life insurance policies
- (B) National savings certificates
- (C) Long term Government bonds
- (D) Provident fund

127. Who among the following has suggested a tax on expenditure?

- (A) Dalton
- (B) Musgrave
- (C) Kaldor
- (D) Gautam Mathur

128. In calculating national income which of the following is included?

- (A) Services of housewives
- (B) Income of smugglers
- (C) Pensions
- (D) Income of watchmen

129. Gresham's law is related to

- (A) consumption and demand
- (B) circulation of money
- (C) supply and demand
- (D) deficit financing

130. Which among the following is a suitable term for the state of economy in which economic activity is slowing down but wages and prices continue to rise?

- (A) Inflation
- (B) Skewflation
- (C) Deflation
- (D) Stagflation

131. If a commodity has more number of substitutes, the demand for this commodity will be

- (A) more elastic
- (B) inelastic
- (C) less elastic
- (D) perfectly elastic

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132. A monopolist will be able to maximize his profits when

- (A) his output is maximum
- (B) he charges high price
- (C) his average cost is minimum
- (D) his marginal cost is equal to the marginal revenue

133. Economic growth is normally coupled with

- (A) inflation
- (B) hyperinflation
- (C) deflation
- (D) stagflation

134. Which of the following ministries is responsible for calculating GDP in India?

- (A) Ministry of Finance
- (B) Ministry of Commerce and Industry
- (C) Ministry of Central Statistical and Program Implementation
- (D) Ministry of Consumer Affairs

135. What is perfectly inelastic demand?

- (A) Demand doesn't change with price
- (B) Demand changes with price
- (C) Change in demand is equal to price
- (D) Demand changes infinitely

136. What is a free good?

- (A) Opportunity cost = Maximum
- (B) Opportunity cost = Negative
- (C) Opportunity cost = 0
- (D) Opportunity cost = 1

137. What is the extra cost imposed by the Government which increases the price for a customer?

- (A) Subsidy
- (B) Fine
- (C) Tax
- (D) Inflation

138. Real national income increases in which of the following circumstances?

- (A) When prices of goods increase
- (B) When savings of people increase
- (C) When inflation increases prices and taxes
- (D) When the production of goods and services increases

139. What is subtracted from personal income to get personal disposable income?

- (A) Indirect taxes
- (B) Direct taxes
- (C) Subsidies
- (D) None of the above

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140. Which of the following is **not** a micro-economic variable?

- (A) Demand of a commodity
- (B) Supply of a commodity
- (C) Price rise of a commodity
- (D) Employment generated in a year in a country

141. What is the income elasticity of demand for inferior goods?

- (A) Equal to 1
- (B) Greater than 1
- (C) negative
- (D) Positive

142. Who propounded the opportunity cost theory of international trade?

- (A) Ricardo
- (B) Heckscher and Ohlin
- (C) Marshall
- (D) Haberler

143. What does the term 'incentive' mean?

- (A) It is the opposite of a tradeoff
- (B) It could be a reward but could not be a penalty
- (C) It could either be a reward or a penalty
- (D) It could be a penalty but could not be a reward

144. Which of the following is a micro-economic problem?

- (A) The reasons why average prices are falling
- (B) The reasons Ashok is buying less vegetables
- (C) The reasons why overall employment may fall
- (D) The impact of the government budget deficit on inflation

145. 'Take off stage' in an economy means

- (A) economy is stagnant
- (B) economy is about to collapse
- (C) steady growth begins
- (D) all controls are removed

146. In which sector, the public sector is most dominant in India?

- (A) Transport
- (B) Steel production
- (C) Commercial banking
- (D) Organized term-lending financial institutions

147. What is the correct sequence of the following strategies used for five-year plans in India?

- I. Balanced growth
 - II. Rehabilitation of the economy
 - III. Industrial development
- (A) I, III, II
 - (B) II, I, III
 - (C) II, III, I
 - (D) III, II, I

148. Wage fund theory was propounded by

- (A) J. B. Say
- (B) J. S. Mill
- (C) J. M. Keynes
- (D) J. R. Hicks

149. The economist who believed that unemployment is impossible and that market mechanism has a built-in regulatory system to meet any ups and downs was

- (A) Ohlin
- (B) J. B. Say
- (C) Galbraith
- (D) J. M. Keynes

150. According to modern theory of rent, rent accrues to

- (A) any factor
- (B) capital only
- (C) land only
- (D) labour only

151. Which of the statements given below is correct?

- (A) Microeconomics is primarily concerned with the overall economy
- (B) Individual markets are the focus of macroeconomics
- (C) Governments do not have any control over market prices
- (D) When economists study a market's price, their main goal is to figure out why the price is what it is and how it might change

152. The sum of the market value of _____ sums up to be gross domestic product.

- (A) normal goods and services
- (B) final goods and services
- (C) intermediaries
- (D) All of the above

153. The price elasticity of demand is the

- (A) percentage change in quantity demanded divided by the percentage change in price
- (B) percentage change in price divided by the percentage change in quantity demanded
- (C) dollar change in quantity demanded divided by the dollar change in price
- (D) percentage change in quantity demanded divided by the percentage change in quantity supplied

154. Who is the Chairman of the Monetary Policy Committee?

- (A) The RBI Chairman
- (B) The Finance Minister
- (C) The Prime Minister
- (D) The Chief Economic Advisor

155. Total utility is maximum when

- (A) marginal utility is zero
- (B) marginal utility is equal to average utility
- (C) marginal utility is at its highest point
- (D) average utility is maximum

156. The second glass of water gives lesser satisfaction to a thirsty person. This is a clear case of

- (A) law of demand
- (B) law of diminishing returns
- (C) law of diminishing utility
- (D) law of supply

157. The consumer is in equilibrium when

(A) $\frac{MU_x}{MU_y} > \frac{P_x}{P_y}$

(B) $\frac{MU_x}{MU_y} = \frac{P_x}{P_y}$

(C) $\frac{MU_x}{MU_y} < \frac{P_x}{P_y}$

- (D) None of the above

158. The law of demand assuming other things to remain the same, establishes the relationship between

- (A) income of the consumer and the quantity of a good demanded by him
- (B) price of a good and the quantity demanded
- (C) price of a good and the demand for its substitute
- (D) quantity demanded of a good and the relative prices of its complementary goods

159. Cardinal approach uses which of the following concepts to explain consumer equilibrium?

- (A) Indifference curve
- (B) Equi-marginal utility
- (C) Product maximization
- (D) None of the above

160. The coefficient of price elasticity of demand when the percentage increase in the quantity of a good demanded is smaller than the percentage fall in its price, is

- (A) equal to one
- (B) greater than one
- (C) smaller than one
- (D) zero

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161. In the case of an inferior good, the income elasticity of demand is

- (A) positive
- (B) zero
- (C) negative
- (D) infinite

162. If the demand for a good is inelastic, an increase in its price will cause the total expenditure of the consumers of that good to

- (A) remain the same
- (B) decrease
- (C) increase
- (D) None of the above

163. If regardless of changes in its price, the quantity demanded of a good remains unchanged, then the demand curve for the good will be

- (A) horizontal
- (B) negatively sloped
- (C) positively sloped
- (D) vertical

164. Identify the **incorrect** statement.

- (A) Land includes all free gifts of nature
- (B) Labour is perishable
- (C) Land is fixed in supply
- (D) Labour is a passive factor of production

165. Which of the following is **not** a characteristic of capital?

- (A) A passive factor of production
- (B) Capital involves no present sacrifice
- (C) It is elastic
- (D) It is mobile

166. A factory building can be classified as what type of capital?

- (A) Fixed capital
- (B) Sunk capital
- (C) Portfolio capital
- (D) None of the above

167. Which of the following statements is true?

- (A) Accumulating capital depends solely on income
- (B) Saving can be affected by the state
- (C) The supply curve of labour is an upward sloping curve
- (D) Entrepreneur is one who makes investment in business or industry

168. Find out the correct statement.

- (A) The law of diminishing returns applies to agriculture alone
- (B) The law of diminishing returns is neither universal nor inevitable
- (C) The law of returns operates due to substitutability and variability of the factors of production
- (D) If A and B factors are imperfect substitutes, then elasticity of substitution is infinite

169. Average product is maximum when

- (A) MP is lower than AP
- (B) MP equals AP
- (C) MP exceeds AP
- (D) MP becomes negative

170. Law of variable proportions refers to amount to extra output secured by

- (A) increasing quantities of fixed factor to variable factors
- (B) increasing quantities of fixed factor to another fixed factor
- (C) increasing quantities of variable factors to other fixed factor
- (D) variation in factor proportions

171. Indicate the **incorrect** statement.

- (A) When AP rises, MP is more than AP
- (B) When AP is maximum, MP is equal to AP
- (C) MP cuts the AP curve at its minimum
- (D) When AP falls, MP is less than AP

172. A rational producer will seek to produce in which stage of the law of variable proportion?

- (A) Stage 1
- (B) Stage 2
- (C) Stage 3
- (D) All the stages

173. Returns to scale refers to changes in output when

- (A) all factors of production are changed in the same proportion
- (B) there is change in factor proportions
- (C) some factors are changed while other remain constant
- (D) none of the factors is changed

174. An isoquant

- (A) slopes upward to the right
- (B) is convex to the origin
- (C) lying to the right represents smaller output
- (D) can touch either axes

175. The marginal rate of technical substitution diminishes

- (A) if two factors are perfect substitutes of each other
- (B) if the two factors are complements
- (C) as more and more of capital is substituted by additional units of labour
- (D) lower the rate of diminish, smaller would be the substitutability between the two factors

MATHEMATICS

Each question carries 2 marks

101. A class starts at 10:00 a.m. and lasts till 1:27 p.m. Four periods are held during this interval. After every period, 5 minutes are given free to the students. The exact duration of each period is
- (A) 54 minutes
(B) 52 minutes
(C) 50 minutes
(D) 48 minutes
102. A sum of ₹ 1,360 has been divided among A, B and C such that A gets $\frac{2}{3}$ of what B gets and B gets $\frac{1}{4}$ of what C gets. B's share is
- (A) ₹ 120
(B) ₹ 160
(C) ₹ 240
(D) ₹ 300
103. If $a - b = 3$ and $a^2 + b^2 = 29$, then the value of ab is
- (A) 12
(B) 10
(C) 9
(D) None of the above
104. A total of 324 coins of 20 paise and 25 paise make a sum of ₹ 71. The number of 25 paise coins is
- (A) 124
(B) 130
(C) 144
(D) 200
105. The sum of the digits in the unit places of the square root and that of the square of 256 is
- (A) 11
(B) 16
(C) 14
(D) 12
106. If $\sqrt{2} = 1.4142$, then the value of $\frac{7}{3 + \sqrt{2}}$ is
- (A) 2.8284
(B) 1.5858
(C) 2.5858
(D) None of the above
107. The sum of the first six prime numbers is
- (A) even
(B) composite
(C) prime
(D) None of the above
108. The average of the first ten prime numbers is
- (A) 12.9
(B) 10.9
(C) 13.1
(D) None of the above

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109. The average of five numbers is 27. If one number is excluded, the average becomes 25. The excluded number is

- (A) 25
- (B) 27
- (C) 30
- (D) None of the above

110. A pupil's marks were wrongly entered as 83 instead of 63. Due to that the average marks for the class got increased by half. The number of pupils in the class is

- (A) 30
- (B) 40
- (C) 55
- (D) 60

111. Three years ago, the average age of a family of 5 members was 17 years. A baby having been born, the average age of the family is the same today. The present age of the baby is

- (A) 1 year
- (B) $1\frac{1}{2}$ years
- (C) 2 years
- (D) 3 years

112. Twenty times a positive integer is less than its square by 96. What is the integer?

- (A) 20
- (B) 24
- (C) 30
- (D) Cannot be determined

113. The sum of two numbers is 40 and their difference is 4. The ratio of the numbers is

- (A) 11:9
- (B) 11:18
- (C) 21:19
- (D) 22:9

114. The sum of the squares of three consecutive natural numbers is 2030. What is the middle number?

- (A) 30
- (B) 28
- (C) 27
- (D) 26

115. The denominator of a fraction is 3 more than the numerator. If the numerator as well as the denominator is increased by 4, the fraction becomes $\frac{4}{5}$. What is the original fraction?

- (A) $\frac{7}{10}$
- (B) $\frac{5}{8}$
- (C) $\frac{8}{11}$
- (D) $\frac{10}{13}$

116. The ratio between the present ages of P and Q is $5:7$. If Q is 4 years older than P , then what will be the ratio of the ages of P and Q after 4 years?

- (A) 3:4
- (B) 7:9
- (C) 3:5
- (D) None of the above

117. A man is 24 years older than his son. In two years, his age will be twice the age of his son. The present age of the son is

- (A) 22 years
- (B) 20 years
- (C) 18 years
- (D) 16 years

118. In 10 years, A will be twice as old as B was 10 years ago. If A is now 9 years older than B , the present age of B is

- (A) 19 years
- (B) 29 years
- (C) 39 years
- (D) 49 years

119. The largest number from among $\sqrt{2}$, $\sqrt[3]{3}$, $\sqrt[4]{4}$ is

- (A) $\sqrt{2}$
- (B) $\sqrt[3]{3}$
- (C) $\sqrt[4]{4}$
- (D) All are equal

120. If $a + \frac{1}{a} = \sqrt{3}$, then $a^3 + \frac{1}{a^3}$ is equal to

- (A) 0
- (B) $\sqrt[3]{3}$
- (C) 3
- (D) None of the above

121. If α and β are the roots of the quadratic equation $2x^2 - 3x + 1 = 0$, then the value of $\frac{1}{\alpha} + \frac{1}{\beta}$ is

- (A) 1
- (B) 2
- (C) 3
- (D) $-\frac{3}{2}$

122. What percent of 50 is 2?

- (A) 1%
- (B) 2%
- (C) 3%
- (D) 4%

123. Rohit buys goods worth ₹6,650. He gets a rebate of 6% on it. After getting the rebate, he pays sales tax @ 10%. The amount he will have to pay, is

- (A) ₹6,876.10
- (B) ₹6,989.20
- (C) ₹6,654.50
- (D) ₹7,000

124. A student multiplied a number by $\frac{3}{5}$ instead of $\frac{5}{3}$. What is the percentage error in the calculation?

- (A) 34%
- (B) 44%
- (C) 54%
- (D) 64%

125. Kunal spends 40% of his salary on food, 20% on house rent, 10% on entertainment and 10% on conveyance. If his savings at the end of a month are ₹1,500, then his monthly salary is

- (A) ₹10,000
- (B) ₹8,000
- (C) ₹7,500
- (D) ₹6,000

126. The price of oil is increased by 25%. If the expenditure is not allowed to increase, the ratio between the reduction in consumption and the original consumption is

- (A) 1:2
- (B) 1:3
- (C) 1:4
- (D) 1:5

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127. A man sold 18 cots for ₹16,800, gaining thereby the cost of 3 cots. The cost price of a cot is

- (A) ₹800
- (B) ₹750
- (C) ₹700
- (D) ₹650

128. A dishonest shopkeeper professes to sell his goods at cost price. But he uses a weight of 800 gm instead of kilogram weight. Thus he makes a profit of

- (A) 20%
- (B) $22\frac{1}{2}\%$
- (C) 25%
- (D) $25\frac{1}{2}\%$

129. The difference between the cost price and sale price of an article is ₹240. If the profit is 20%, then the cost price is

- (A) ₹1,600
- (B) ₹1,550
- (C) ₹1,400
- (D) ₹1,200

130. If $2A = 3B = 4C$, then $A : B : C$ is

- (A) 6 : 4 : 3
- (B) 4 : 3 : 2
- (C) 2 : 3 : 4
- (D) 20 : 15 : 2

131. The ratio of three numbers is 3 : 4 : 5 and the sum of their squares is 1250. The sum of the numbers is

- (A) 30
- (B) 50
- (C) 60
- (D) 90

132. An amount of ₹2,430 is divided among A , B and C such that if their shares be reduced by ₹5, ₹10 and ₹15 respectively, the remainders shall be in the ratio of 3 : 4 : 5. Then B 's share was

- (A) ₹705
- (B) ₹780
- (C) ₹800
- (D) ₹810

133. The ratio of the number of boys and girls in a school is 3 : 2. If 20% of the boys and 25% of the girls are scholarship holders, then what percentage of the students does not get the scholarship?

- (A) 70
- (B) 78
- (C) 80
- (D) 85

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134. A , B and C enter into partnership. A invests some money at the beginning, B invests double the amount after 6 months and C invests thrice the amount after 8 months. If the annual profit be ₹27,000, C 's share is

- (A) ₹8,625
- (B) ₹8,925
- (C) ₹9,000
- (D) ₹10,800

135. A , B , C can complete a piece of work in 24, 12 and 6 days respectively. How long will they take to complete the job if they all work together?

- (A) $3\frac{3}{7}$ days
- (B) $\frac{7}{24}$ days
- (C) $\frac{5}{24}$ days
- (D) None of the above

136. A and B can together finish a work in 30 days. They work together for 20 days and then B left. After another 20 days, A finished the remaining work. In how many days A alone can finish the job?

- (A) 45
- (B) 50
- (C) 55
- (D) 60

137. Two pipes A and B can fill a cistern in 12 minutes and 15 minutes respectively while a third pipe C can empty the full cistern in 6 minutes. A and B are kept open for 5 minutes in the beginning and then C is also opened. In what time is the cistern emptied?

- (A) 30 minutes
- (B) 35 minutes
- (C) 40 minutes
- (D) 45 minutes

138. A man in a train notices that he can count 21 telephone posts in one minute. If the posts are known to be 50 metres apart, then at what speed is the train travelling?

- (A) 55 km/hr
- (B) 57 km/hr
- (C) 60 km/hr
- (D) 63 km/hr

139. A 200 metres long train, running at a speed of 90 km/hr, crosses a bridge completely in 10 seconds. The length of the bridge is

- (A) 50 metres
- (B) 60 metres
- (C) 70 metres
- (D) 100 metres

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140. A man can row at 5 kmph in still water. If the velocity of current is 1 kmph and it takes him 1 hour to row to a place and come back, how far is the place?

- (A) 2.4 km
- (B) 2.5 km
- (C) 3 km
- (D) 3.5 km

141. On a sum of money, the simple interest for two years is ₹660, while the compound interest is ₹696.30, the rate of interest being the same in both the cases. The rate of interest is

- (A) 10%
- (B) 12%
- (C) $12\frac{1}{2}\%$
- (D) None of the above

142. A wheel makes 1000 revolutions in covering a distance of 88 km. The radius of the wheel is (Given : $\pi = \frac{22}{7}$)

- (A) 10 m
- (B) 14 m
- (C) 18 m
- (D) 20 m

143. The length of a rectangle is halved, while its breadth is tripled. What is the percentage change in area?

- (A) 25% increase
- (B) 40% decrease
- (C) 45% decrease
- (D) 50% increase

144. Three cubes of iron whose edges are 6 cm, 8 cm and 10 cm respectively are melted together and formed into a single cube. The edge of the new cube formed is

- (A) 12 cm
- (B) 14 cm
- (C) 16 cm
- (D) 18 cm

145. A cylinder with base radius 8 cm and height 2 cm is melted to form a cone of height 6 cm. The radius of the circular base of the cone will be

- (A) 4 cm
- (B) 5 cm
- (C) 8 cm
- (D) 6 cm

146. Which of the following is a leap year?

- (A) 1900
- (B) 1800
- (C) 1700
- (D) None of the above

147. One card is drawn from a pack of 52 cards. What is the probability that the card drawn is either a red card or a king ?

- (A) $\frac{3}{4}$
- (B) $\frac{6}{13}$
- (C) $\frac{7}{13}$
- (D) $\frac{27}{52}$

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148. From a point P on a level ground, the angle of elevation of the top of a tower is 45° . If the tower is 100 m high, the distance of the point P from the foot of the tower is

- (A) 100 m
- (B) 173 m
- (C) 156 m
- (D) 200 m

149. Find out the wrong number in the series.

1, 1, 2, 3, 5, 8, 13, 20, 34

- (A) 13
- (B) 20
- (C) 2
- (D) 8

150. The area of a circle is equal to the surface area of a sphere. Then

- (A) the radius of the sphere is equal to the diameter of the circle
- (B) the radius of the circle is equal to the diameter of the sphere
- (C) their radii are equal
- (D) None of the above

151. Which of the following sets of three numbers cannot represent the lengths (in cm) of the sides of a triangle?

- (A) 10, 5, 6
- (B) 9, 12, 4
- (C) 7, 13, 4
- (D) 5, 8, 5

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152. The value of

$$\frac{147 \times 147 + 147 \times 143 + 143 \times 143}{147 \times 147 \times 147 - 143 \times 143 \times 143}$$

is

- (A) $\frac{1}{4}$
- (B) 290
- (C) $\frac{1}{290}$
- (D) 4

153. Which term of the sequence

8, 13, 18, 23, ...

is 103?

- (A) 25th
- (B) 31st
- (C) 20th
- (D) 15th

154. If $(x - 1)$, $3x$, $(3x + 1)$ represent the sides of a right-angled triangle, then the value of x is

- (A) 8
- (B) 7
- (C) 5
- (D) 4

155. What least number must be subtracted from 13601, so that the remainder is divisible by 87?

- (A) 23
- (B) 31
- (C) 29
- (D) 37

156. The taxi charges in a city comprise of a fixed charge, together with the charge of the distance covered. For a journey of 16 km, the charges paid are ₹ 156 and for a journey of 24 km, the charges are ₹ 204. What will a person have to pay for travelling a distance of 30 km?

- (A) ₹ 240
- (B) ₹ 248
- (C) ₹ 256
- (D) ₹ 260

157. The mean of the first 20 odd natural numbers is

- (A) 20
- (B) 19.1
- (C) 18.9
- (D) 20.5

158. The smallest whole number in place of * for which the number $92715*6$ is completely divisible by 11 is

- (A) 1
- (B) 5
- (C) 4
- (D) 3

159. If a and b are odd numbers, then which of the following is even?

- (A) $(a + b)^2 + 1$
- (B) $(a + b)^2$
- (C) ab
- (D) $ab + 2$

160. On dividing a number by 357, we get 39 as remainder. What will be the remainder when the same number is divided by 17?

- (A) 0
- (B) 3
- (C) 5
- (D) 7

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161. How many natural numbers are there between 23 and 99 which are exactly divisible by 6?

- (A) 10
- (B) 12
- (C) 13
- (D) 15

162. Which of the following is a pair of coprimes?

- (A) (16, 74)
- (B) (17, 85)
- (C) (23, 92)
- (D) (36, 85)

163. The least number, which when divided by 12, 15, 20 and 54 leaves in each case a remainder of 8, is

- (A) 545
- (B) 548
- (C) 580
- (D) 504

164. The greatest number which on dividing 1657 and 2037 leaves remainders 6 and 5 respectively, is

- (A) 127
- (B) 180
- (C) 248
- (D) 305

165. Which of the following are in descending order of their values?

- (A) $\frac{5}{9}, \frac{7}{11}, \frac{8}{15}$
- (B) $\frac{5}{9}, \frac{8}{15}, \frac{7}{11}$
- (C) $\frac{7}{11}, \frac{8}{15}, \frac{5}{9}$
- (D) $\frac{7}{11}, \frac{5}{9}, \frac{8}{15}$

166. How many diagonals of a regular hexagon pass through its centre?

- (A) 6
- (B) 3
- (C) 9
- (D) 4

167. A positive number n is said to be in scientific notation if it is expressed as $n = m \times 10^p$, where $1 \leq m < 10$ and p an integer. When expressed in scientific notation, 518,000,000 equals

- (A) 5.18×10^8
- (B) 5.18×10^9
- (C) 51.8×10^6
- (D) 51.8×10^7

168. The value of $0.5\bar{7}$ is

- (A) $\frac{57}{99}$
- (B) $\frac{19}{10}$
- (C) $\frac{52}{45}$
- (D) $\frac{26}{45}$

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169. The sum of 20 terms of the series

$$\frac{1}{1 \cdot 2} + \frac{1}{2 \cdot 3} + \frac{1}{3 \cdot 4} + \dots$$

is

(A) $\frac{19}{20}$

(B) $\frac{21}{20}$

(C) $\frac{20}{21}$

(D) $\frac{20}{19}$

170. On simplification of

$$\frac{(2 \cdot 644)^2 - (2 \cdot 356)^2}{0.288}$$

we get

(A) 4

(B) 5

(C) 6

(D) 1

171. A tin of oil was $\frac{4}{5}$ full. When 6 bottles of oil were taken out and four bottles of oil were poured into it, it was $\frac{3}{4}$ full. How many bottles of oil can the tin contain?

(A) 40

(B) 30

(C) 25

(D) 20

172. If x is positive, then which of the following fractions has a value greater than 1?

(A) $\frac{x-1}{x}$

(B) $\frac{x}{x+1}$

(C) $\frac{x+1}{x+2}$

(D) $\frac{x+1}{x}$

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173. If $a * b = \frac{ab}{a+b}$, then the value of $3 * (2 * -1)$ is

(A) 5

(B) 6

(C) -6

(D) -5

174. If $\frac{a}{b} = \frac{3}{2}$, then the value of $\frac{6a+4b}{6a-5b}$ is

(A) $\frac{15}{4}$

(B) $\frac{13}{4}$

(C) $\frac{10}{3}$

(D) $\frac{13}{9}$

175. If $a(a^2 - 1) \neq 0$, then $a^2 + \frac{1}{a^2}$ is always

(A) greater than 2

(B) less than 2

(C) greater than 1 but less than 2

(D) greater than 4

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$$\text{Profit} = 30,000 \text{ (Both C \& un)}$$

$$\text{Cash rec} = 80\% \text{ (of C)}$$

WIP
